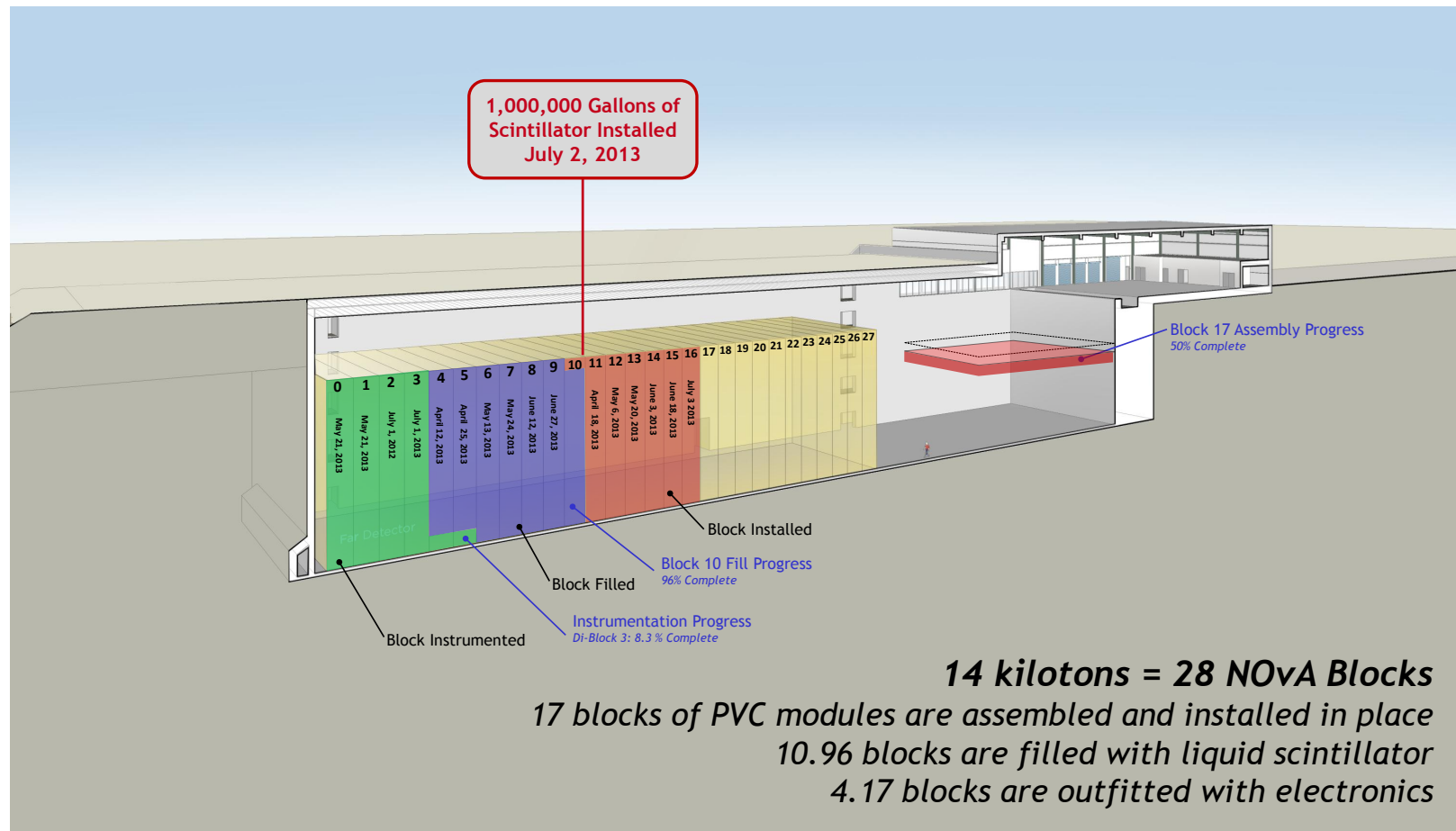




NOvA Experiment Status

Steve Magill ANL

All Experimenter's Meeting, July 15, 2013



Far Detector

01 July 2013



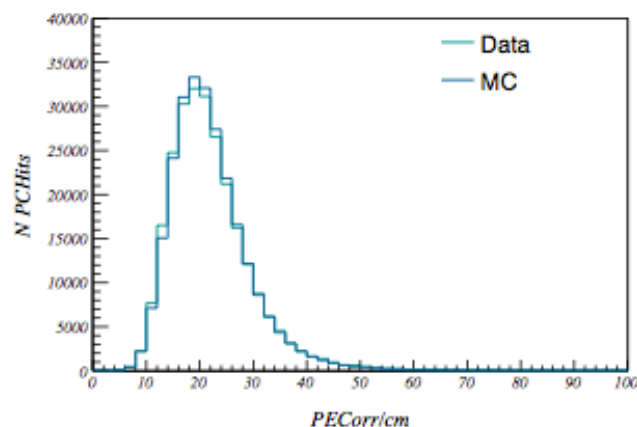
**7 di-blocks
in picture**
(7 crossing
water lines).

**This is ½ of
the detector,**
50 ft wide and
about 100 ft
long.

It is 12
modules wide
and 448 layers
deep.

Looking at FarDet Data

Data and Corrected MC (scaled to data by area)



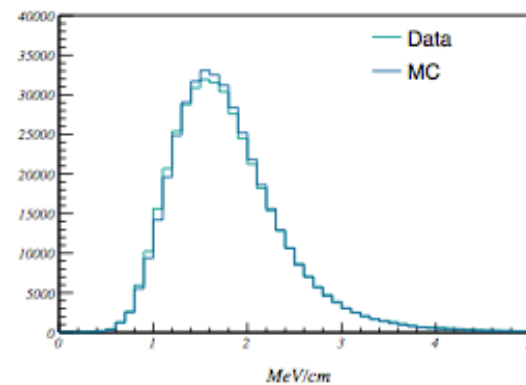
Converting to MeV per cm (data)

From MC truth, 1 MEU = 1.58 MeV/cm

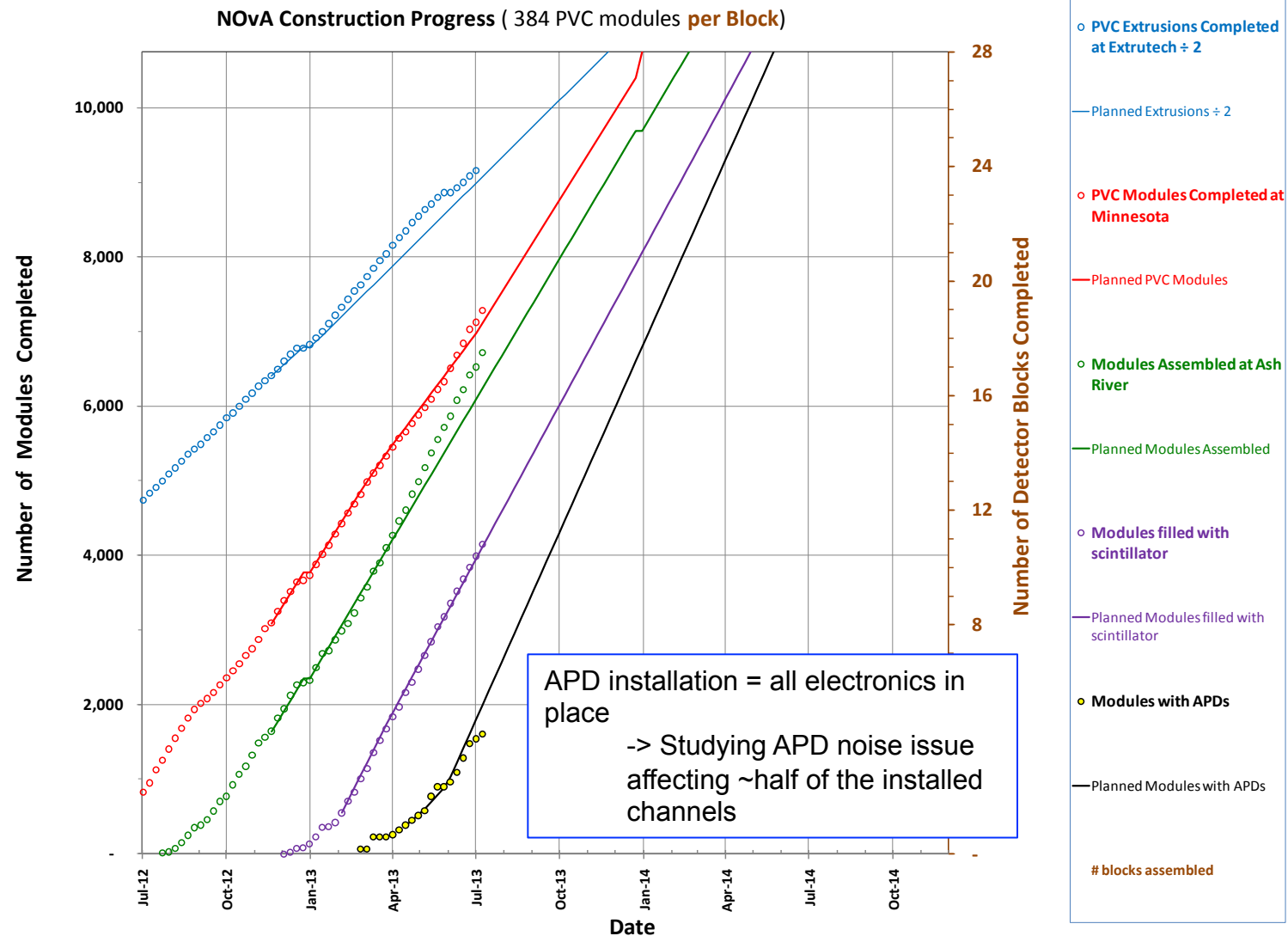
Mean of calibrated data = 1.80 MeV/cm



Some preliminary results of calibration to cosmic muon data so far

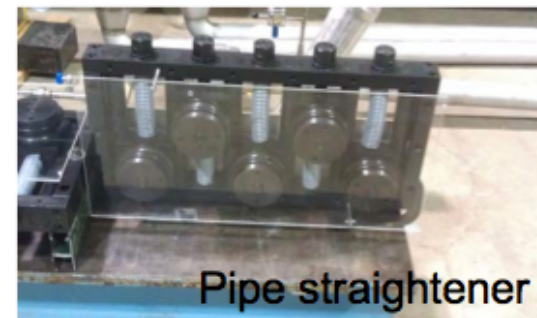
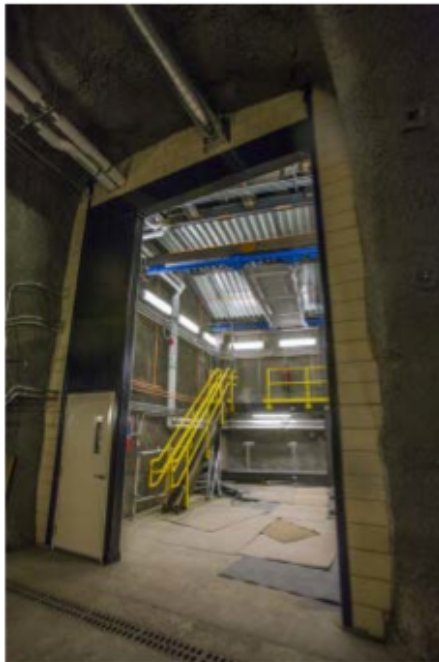
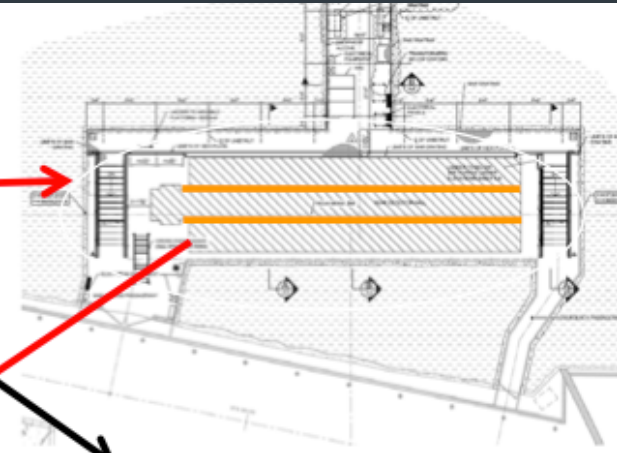


Far Detector Projections



Near Detector Cavern Status

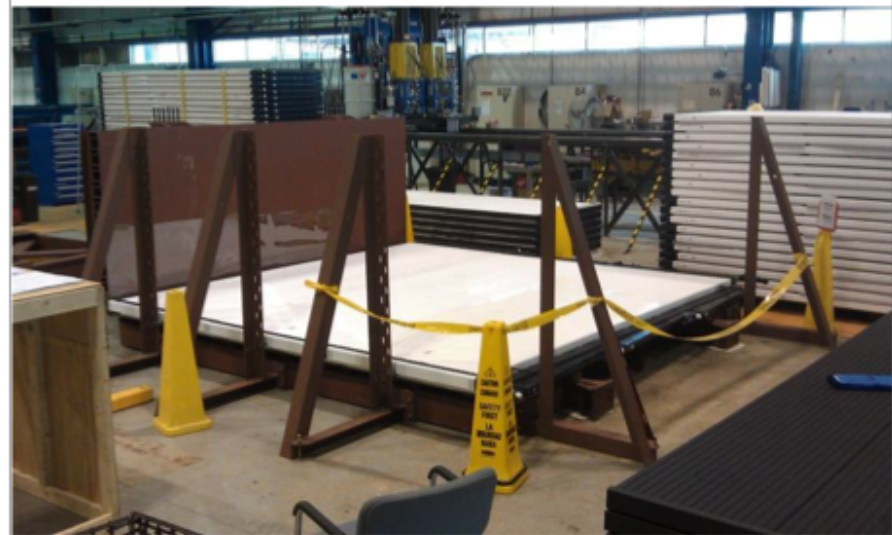
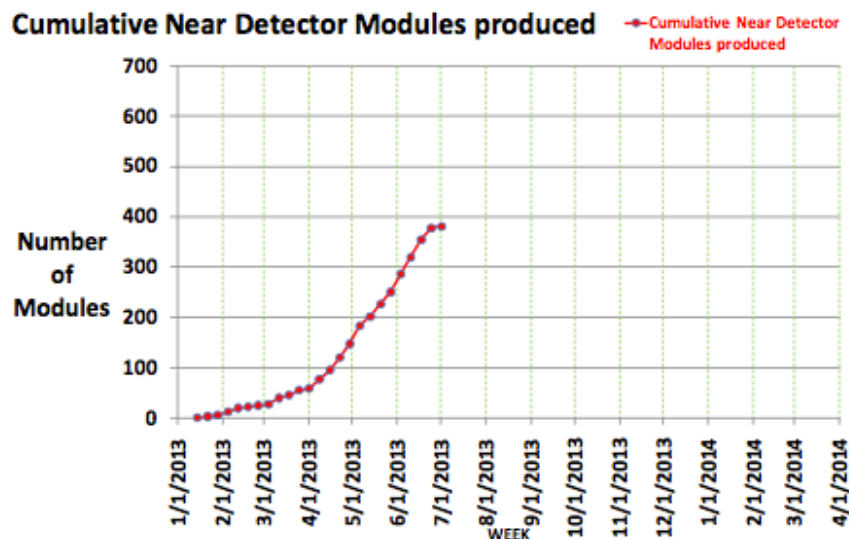
- The cavern is complete. Entryway wall & a “crawl-on” MAP are done. Roll-up door to come.
 - Rails in place for installation of detector muon catcher and detector blocks in the cavern
 - Continuous stainless pipe delivered for scintillator distribution down the shaft and down the tunnel to the NOvA Cavern.



Pipe straightener

Near Detector Assembly

- The Minneapolis factory has completed the PVC modules for the 1st ½ of the Near Detector.
 - Assembly of additional modules is a filler task when no Far modules can be built
- At Fermilab, assembly is starting
 - Conversion of the NDOS muon catcher to the new Near Detector muon catcher is proceeding at Meson Assembly Building
 - after extraction of the NDOS steel plates by the Particle Physics Division (no Project \$)
 - Prototype Adhesive Machine moved from ANL and commissioned.
 - Dry stack of a 3 module by 3 module block is ongoing at CDF. “Dry” = no glue.



Summary



- 2 kilotons of the Far Detector working with full electronics
- Dry stacking of Near Detector modules complete – ready for gluing of modules -> blocks
- Hope to have full detectors operating in beam by next April/ May